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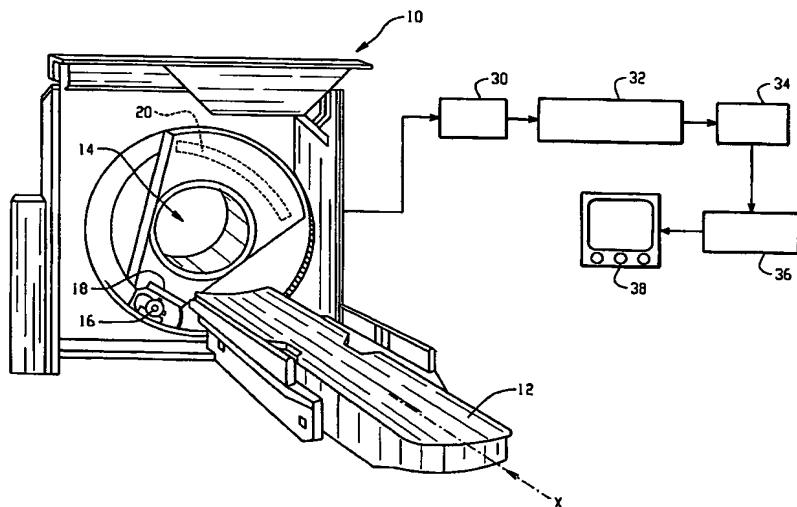
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*[Continued on next page]*

(54) Title: SHAPED ANODE X-RAY TUBE



(57) Abstract: An x-ray tube (16) suitable for use in a computed tomography (CT) scanner (10) includes an envelope (42) which defines an evacuated chamber. An anode (40) and a cathode assembly (70) are disposed within the chamber. The anode defines a target area (56) which is struck by electrons (52) emitted by a filament (54) of the cathode assembly and emits x-rays (46). The target area lies partially on a first annular portion (80) which is disposed at first angle (a) relative to a plane perpendicular to an axis of rotation (R) of the anode, and partially on a second portion (82, 120) which is radially spaced from the first portion and disposed at a second angle (B), relative to the plane. The second angle is greater than the first angle. The portions of different slope allow the x-ray tube to take advantage of a shallow angle, while minimizing the heel effect.

WO 2005/010916 A2



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